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Johnny Matta , Christine Pépin , Khosrow Lashkari , Ravi Jain

**Proceedings of the 13th international workshop on Network and operating systems support for digital audio and video** June 2003


We present a dynamic joint source and channel coding adaptation algorithm for the AMR speech codec based on the ITU-T Emodel. This model takes both delay and packet loss into consideration. We address the problem of finding the optimal choice of source and channel bit rates given QoS information about the wired and wireless IP network and subject to constraints on maximum packet loss, maximum delay and maximum allowed transmission rate. Our results show that an adaptation is necessary to preserv ...

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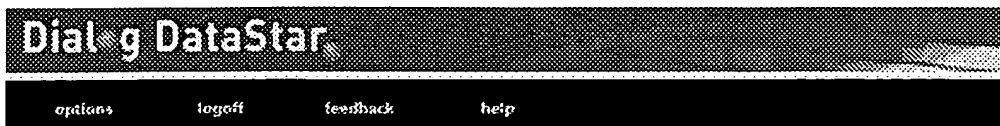
 David A. Eckhardt , Peter Steenkiste

**Mobile Networks and Applications** December 1999

Volume 4 Issue 4

Wireless transmissions are highly susceptible to noise and interference. As a result, the error characteristics of a wireless link may vary widely depending on environmental factors such as location of the communicating systems and activity of competing radiation sources, making error control a difficult task. In this paper we evaluate error control strategies for a wireless LAN. Based on low-level packet traces of WaveLAN, we first show that forward error correction (FEC) is effective in r ...

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**1 Performance limits of Reed-Solomon coded CDMA with orthogonal signaling in a Rayleigh-fading channel**

*Sang Wu Kim; Stark, W.;*

Communications, IEEE Transactions on , Volume: 46 , Issue: 9  
, Sept. 1998

Pages:1125 - 1134

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10. Self-correcting codes conquer noise part 2: Reed-Solomon codes

Syed Shahzad Shah, Saqib Yaqub, Faisal Suleman, Chameleon Logics. EDN. Boston: Mar 15, 2001.  
Vol. 46, Iss. 6; p. 107 (8 pages)

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